Docket No.

248232US2S

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Kazuyuki HIGASHI, et al.

SERIAL NO: New Application

New Application

GAU:

FILED:

Herewith

EXAMINER:

FOR:

SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- □ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Marvin J. Spivak

Registration No. 24,913

C. Irvin McClelland Registration Number 21,124

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STATEMENT OF RELEVANCY

Reference AW of Form PTO-1449:

Regarding stress migration issues on Cu Interconnects.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 248232US2S		SERIAL NO.		
			248232US2S New Application APPLICANT					
LIST OF REFERENCES CITED BY APPLICANT				'				
				Kazuyuki HIGASHI, et al.	GROUP			
				Herewith		GROUP		
								
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB FILING DATE CLASS IF APPROPRIATE		
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	•	OTHER REFER	ENCES	(Including Author, Title, Date, Pertinen	t Pages, e	tc.)	ابر	
Norio OKADA, et al., "THERMAL STRESS OF 140nm-WIDTH Cu DAMASCENE INTERCONNECTS", Proceedings of the								
	AW	International Interconnect Technology Conference, 2002, pgs. 136 - 138.						
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	AZ				Additional References sheet(s) attached			
Examiner					Date Considered			
*Examiner: In	nitial if r	eference is considered, whetot considered. Include copy o	ther or no	ot citation is in conformance with MPEP 60 m with next communication to applicant.	09; Draw li	ne through	citation	if not in